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January 2, 2007

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Art Unit 1743

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Re:

U.S. Utility Patent Application

Application No. 10/595,100; 371 Date: (to be assigned)

U.S. National Stage of PCT/CN2004/000939; I.A. Filed: August 12, 2004

For: Method for Confirming Hydrogen-Deuterium Exchange in Structures

of Biological Samples and Determining the Percent Content of

Deuterium in Biological Samples

Inventors: MAO et al.

Our Ref: 2108.0080000/MAC

Sir:

Transmitted herewith for appropriate action is the following document:

- 1. Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Submission Under 35 U.S.C. 371; and
- 2. Assertion of Small Entity Status under 37 C.F.R. § 1.27(c).

The above-listed document is filed electronically through EFS-Web.

In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents January 2, 2007 Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michele A. Cimbala Attorney for Applicants Registration No. 33,851

muchit A. Carle

MAC/rss Enclosure

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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NUMBER 2108.0080000/MAC

U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/595,100

INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PCT/CN2004/000939 12 August 2004

PRIORITY DATE CLAIMED
13 August 2003

TITLE OF INVENTION

19. L

Method for Confirming Hydrogen-Deuterium Exchange in Structures of Biological Samples and Determining the Percent Content of Deuterium in Biological Samples

APPLICANT(S) FOR DO/EO/US Jiangsen MAO et al. Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. c. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 10. Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 12. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4).

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

PTO-1390 (Rev. 07-2005)
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U.S. APPLICATION NO. (if known, see 37 CFR 1.5) $10/595,100$			ATTORNEY'S DOCKET NUMBER 2108.0080000/MAC		
20. Other items or information: Assertion of Small Entity Status Under 37 C.F.R. §1.27(c).					
The following fees have been submitted		·	CALCULATIONS	PTO USE ONLY	
21. Basic national fee (37 CFR 1.492(a))		\$300	\$		
22. Examination fee (37 CFR 1.492(c))					
If the written opinion prepared by ISA/US or the intern by IPEA/US indicates all claims satisfy provis All other situations	\$				
23. Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the Internationa IPEA/US indicates all claims satisfy provision Search fee (37 CFR 1.445(a)(2)) has been paid on the International Searching Authority International Search Report prepared by an ISA other previously communicated to the US by the IB. All other situations	\$				
TOTAL OF 21, 22 and 23 =					
Additional fee for specification and drawings filed sequence listing in compliance with 37 CFR 1 electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets					
70.07 0770010	Number of each additional 50 or fraction thereof (round up to a whole number)				
- 100 = /50 =	× \$250		\$	ı	
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).					
CLAIMS NUMBER FILED	NUMBER EXTRA	RATE	\$		
Total claims - 20 =		× \$ 50	\$		
Independent claims - 3 =		× \$200	\$		
MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360			\$		
	\$				
Applicant claims small entity status. See 37 CFR					
•	\$				
Processing fee of \$130.00 for furnishing the English t claimed priority date (37 CFR 1.492(i)).	\$				
	\$				
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property \$					
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			Amount to be refunded:	\$	
	Amount to be charged	\$			

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NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.					
and granted to restore the international Application to penuing status.					
SEND A	LL CORRESPONDENCE TO:	Imilah A. Can'the			
		SIGNATURE			
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